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ISSUED EVERY TUESDAY AND PRIDAY GLUCOSE MANUFACTURE.

Interesting Process by Which Honey Is
Made from Indian Cara.
The process of making glucose will be best understood by following the eorn from the time it enters the factory until it runs out at a spigot a clear, coloriess liquid. The shell corn is first soaked for several days in water to soften the hull and prepare it for the eracking process. The softened corn is conveyed by elevators to one of the higher stories of the factory and shoveled into large hoppers, from which it passes into mills that morely crack the grains without reducing them at once to a fine meal. The them at once to a fine meal. The "And d'cracked grain is then conducted to a declare!" large tank filled with rinsing water.

The hulls of the corn float at the top of the water, the germs sink to the bottom, and the portions of the grain bottom, and the portions of the grain America?"

declare!"

"Sergeant, vhns I green as grass? Vhns I some idlots? Vhns I crazy? Vhns I der greenest Dutchmans in all America?" containing the starch, becoming Amerika?" gradually reduced to flour by friction, are held in solution in the water.

By an ingenious process both the series of tables, representing several acres in area, and the difference in the specific gravity of the two substances nuses the gluton and starch to separ-te without the use of chemicals.

The gluten is of a golden yellow color and the starch snow white. By the converted into glucose. The conver-gion is effected by submitting the starch finds oudt dot I what no haystack." ion is effected by submitting the starch of the scilon of a minute percentage of the sulphuric acid, which without becoming a constituent part of the combound, produces by its presence mereto the action of a minute percentage of the sulphurle acid, which without bepound, produces by its presence mere-ly a miraculous chemical change.

Especial attention given to all Busi- the acid is neutralized by the addition of lime water, the process is checked and dextrine is the permanent product. him \$30 he can hold it two weeks. If If the process is allowed to go on, the he don' come mit dor money dot pin acid, however, works a second change whas mine." and mallose is the result. Here the process can, if necessary, be interrupt-ed by neutralizing the seid by means of lime water, and for some purposes in the art of brewing this is sometimes done who

The third and important stare in the chemical change wrought by the action results in the production of glucose, and just here is where the greatest will of the chemist is required. The product must show by test that it responds exactly to the chemical forresponds exactly to the chemical formula With that of starch, which is common C5, H12, O5. By comparing this formula with that of starch, which is common to ten of hydrogen and five of oxygon—it will be seen that the sulphurie neid has not added to the starch, but has taken up two parts of hydrogen, and the one of hydrogen, and the one of hydrogen, and the one of course, but has taken up two parts of hydrogen, and the one of course, but has taken up two parts of hydrogen, and the one one of course, but has taken up two parts of hydrogen, and the one one of course, but has taken up two parts of hydrogen, and the one of course, but has taken up two parts of hydrogen, and the one of course, but has taken up two parts of hydrogen, and the one of course, but has taken up two parts of hydrogen, and the one of course, but his taken up two parts of hydrogen, and the one of the course of the starch is one of the course of the starch is one of the course of the starch of the sections are not placed on the section are the section of the and the only gain in the starch is one und some ouder man comes in. He below each specimen should be, in adjusted to neutralize the acid forms with right away. He says: 'Vhell! vhell! but with the number referring to your

which caramel, or burnt sugar, could be produced were it of any commercial like to take a check for \$50 and lend be produced were it of any commercial value. The gypaum, or sulphate of lime, formed by the neutralizing lime water and sulphuric acid, sinks by gravitation to the bottom of the vessel and the supernatant saccharine liquid is drawn off from the top. This is almost pure chemical glucose, but it is still subjected to a filtering process through bone-black and refined. The same way as came sugar is refined. The supernatane way as came sugar is refined. The convince Mr. Dander that he have to convince Mr. Dander that he one-black has any thing but the aping to itself all coloring matter. The glucose, passing through a labyrinthine system of filtering, is drawn off at spigots in the lower part of the building, and is ready to be shipped away in barrels. To give the glucose the appearance of case sirung a well acts.

What?"

realized it, he said:

"Sergeant, gaze by my eye! You molds and blows the bettle, and places it on a stand, whence it is removed by another boy called the "taker-in." to dond know so much as cabbages. In der morning—"

"What?"

from which much of the moisture es-capes by virtue of the centrifugal force. Neither the glucose nor the grape sugar is used for domestic purposes, although either one is about two-thirds as sweet as the sweetest cane sugar. Glucose is chiefly used for fermenting purposes, and of late years has become invaluable to the trawer n making beer and pale ales. It is also largely used in mixtures with cane sirups and moiasses, and is es-teemed more wholesome than the cane product, which is at best only a side product or residue in the manufacture of cane sugar. - Chicago Mail:

-The last bulletin of the American Geographical Society quotes M. Ganeval as showing that the world is not val as showing that the world is not yet overcrowded. Allowing five acrost to each inhabitant, he finds that Europe has room for an additional population of 115,000,000, Africa for 1,336,000,000, Asia for 1,402,000,000, Cocanica for 515,000,000 and America (or 2,000,000). The fercing regions for 2,000,000,000. The frozen regions of Asia and Europe are deducted from the available space, but Arctic Amer-ica is somewhat hastily assumed to be fit for cultivation:—American.

—A story comes from the Indian Territory which is to the effect that during the recent eclipse of the moon several thousand Comanches, Klowas, Cheyermes, Arapatrees and Delawares, Cheyennes, Arapultoes and Delawares, near Muskogee, get out their guas and fired volley after volley at the monster which they thought they saw in the sky. When the celipse was over they set up whoops of joy, proclaiming that they had won a great victory.

On the check.]—Chicago Tribune.

—In Now Mexico, says the Louis-sille Courier-Journal, the Spanish language is the language of the courts, the council, and the Assembly. Legislative debates are carried on in Spanish, and laws are framed in that handalish and all the assembles in the council of the course.

OLD FATHER DUNDER.

Is Rapidly Learning the Ways and Tricks of the Country. "Vholl, Sergeant," saluted Mr. Dunder in a lively way as he entered the Central Station yesterday to pay his respect to Sergeant Bendal.

"Oh, it's you." "Yes, she whas me. I like to haf me talk mit you.'

"Any thing wrong?"
"No. sir. Every thing whas all o. 1. ash der Yankee says."
"O. k. you mean. Been away?"

go down to Cleveland und come back

Twe sometimes thought so, Mr.

Dunder. "Vholl, maype I vhas green sor hulls and the germs are removed and the flour part now held in solution contains nothing but starch and gluten.

This liquid is then made to flow over a races, but I know how to take care of a races.

"Vhell, pefore I goes awhay entery pody tells me to look oudt for some time the gluten has been completely elliminated the starch assumes a plastic form and is collected from the separating tables by wheelbarrowfuls and taken to a drying-room, where it is hot day!" I shoot him for a confidence man so queek sak dot way I table him: prepared as the starch of commerce or | man so queek ash dot, and I tellshim: prepared as the starch of commerce or man so quees as the ril knock you is placed in a chemical apparatus to be "If you donn fly avhay I'll knock you make to last week!" He goes, He

be in the production of what is known to chemists as dectrined. If, at this stage,

"Dot whas her. He buys her in Call-

makes no deeference how old he "Well?"
"Vhell, dot secures me und I vhas all

grape sugar. There is a fifth stage in by express, but he donn' get her. He

It took the sergeant a quarter of an hour to convince Mr. Dunder that he

In January, she will be a prudent housewife, given to melancholy, but good temper.

ate wife and tender mother.

If in April, inconstant, not very in-telligent, but likely to be good-look-

with a sulty tempor.

If in August, amiable and practical and likely to marry rich.

charges it with moiten glass. The charged mold then passes on a quarter of a circle to the next point, where the

much liked.

In a Chicago Restaurant. Guest (indignantly)-Walter, there

are feathers in this soup.

Waiter (inspecting it)—Why, so there are. I thought I was giving you bean soup. It's chicken broth, sir; costs ten cents more. [Changes figures

that they had won a great victory.

Sugge English is a secondary tongue, and a person is at a decided disadvantage even in transacting business unless he is familiar with Spanish.

COLLECTING BUTTERFLIES. How to Catch, Pin and Monat the Speci-mens Worth Keeping.

It does not require a very extensive outfit for collecting butterfiles, the necessary articles being a net and a cyanide bottle. The frame of the former may be obtained of a tinner. the hoop portion being about twelve inches in diameter. The net is made of cheese-cloth, or Swiss muslin. For the cyanide bottle, get five or ten-cents' worth of potassium cyanide, "I vhas in Cleveland. Yes, sir, I of a wide-mouthed bottle or jar. Pour on this enough plaster of Paris, mixed "And dish't get swindled! Well, I let the plaster dry, when it will form a smooth floor, the deadly fumes from which will soon kill any insect placed

upon it. It is unnecessary to say that the but terflies are caught in the not and transforred to the bottle, where they soon

Never let your bottle be crowded, as the specimens will be injured by rub-bing against each other. When they you know! May pe I whas now some razors, but I know how to take care of myself shust like a Yankee—ha! had by taking a square piece of paper and folding two of the opposite corners to be treefly reposing between "You feel pretty jolly."

"Vheil, dot's so! May pe I vhan sharper ash a Yankee. Hey?"

"Tell me all about it."

"Tell me all about it." n which, opposite the same number you should set down the locality and date of capture, with any addition remarks.

Now, the question which arises is "How can they be pruned and mount-

natural-history store, Nos. 3 and 5 being the best adapted to ordinary use The pin is thrust through the center of the thorax. A gauge should be made to keep all specimens at the same dis-tance from the top of the pin. Now. in order to spread the wings a setting board is necessary, which is made by uniling two strips of board to end pieces, leaving a narrow slit between the boards from a third to half an inch wide. On one side nail a strip of cork over the slit; then, on the other side, the pin bearing the butterfly can be stuck and the wings spread over the dat board on each side. The front pair of wings should be pushed for-ward until their back margins are in a "I see. It's very old."
"Old? Vhas dot diamond old? It straight line and the rear wing brought up to meet them. them there. Let them stay a week or ten days, when they will have dried.

duced to scattering the scale forms with the number referring to your fit a product called gypsum, which can but how whas you. Mr. Dunder, and be removed from the glucose without leaving any appreciable trace.

The fourth stage in the chemical process results in crystalizing the liquid, and then the product is called "'Oh! he does! Go on."

"Oh! he does! Go on."

"Oh! he does! Go on."

"Wheil, his fadder sends him \$2,000

GLASS-BOTTLE MACHINE.

GLASS-BOTTLE MACHINE

The Incentous Apparatus for Mechanical An important innovation in the glass-bottle-making trade has been perfected. It is an ingenious appar atus for mechanically molding and

The molding is done mechanically and the blowing by means of com-pressed air, thus relieving the glass blower and his unhealthy and lifeshortening occupation. Each pair of machines is fed with molten glass by one youth known as a "gatherer," and pearance of a purifying agent, but possesses the poculiar property of attracting to itself all coloring matter. The "Sergeant, gaze by my eye! You

appearance of cane sirup as well as to impact some of the characteristic taste, a small amount of that sirup is added.

"Please see dot dar papers say dot I of our visit one pair of machines were via a small amount of that sirup is added, and a friend of humanity, and dot I the other pair upon pint beer bottles, and the other pair upon pint beer bottles. To make grape sugar the glucose is dried in rapidly-revolving vessels, from which much of the rest of the control of the control

produced. The repeating machine consists of a circular turn-table revolved by machinery around a central pillar. The whole apparatus is seven feet in diameter by five feet over all, and at four points around its circumference are placed at equal distances four molding machines. Each of these is similar in ing. machines. Each of these is similar in II in May, handsome, amiable, and principle to the single machine, allikely to be happy.

If in June, impetuous, will marry early, and be frivolous.

If in July, passably handsome, but passes before the gatherer, who charges it with molten glass. The though, of course, alightly different in If in September, discreet, affable and mold is automatically turned upside down and the interior of the neck of If in October, pretty and coquettish the bottle is formed, the process of and likely to be unhappy. circle brings the perfectly-finished bot-tle to a point at which it is automatfeally discharged on to a carrier, by which it is conveyed to the annealing even, into which it is placed by a boy. The cycle of operations will thus be seen as follows: While the first bottle is being automatically discharged,

and likely to be unhappy.

If in November, liberal, kind and of tomatically commenced. Passing round another quarter of a direle, the moid another quarter of a direle, the moid If in November, well-proportioned, reaches a point where it is closed, the fond of novelty and extravagant.—St. It in December, well-proportioned, fond of novelty and extravagant.—St. I confer quarter of a circum. The proportion of the completed. The third quarter of a life completed. The third quarter of a life completed. n second bottle is being finished a third one being reversed and having he neck punched, while the fourth in being cast—that is, the motion metals is being filled into the mold. With regard to the saving, the actual output to one factory before the introduction of the machinery was 280 gross of bother of the machinery was a considerable o regard to the saving, the actual output in to one factory before the introduction of the machinery was 280 gross of bottles per day of ten hours, the actual capacity of the works being 420 gross per day. There is a very large saving in the cost of lacor.—Lendon Times.

A list of loco newspapers divided into a placetion of the sent on application—Fig. 8.

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Men's and Boy's Good Cotton Undershirts for Wool Mixed Undershirts and Drawers for - -Scarlet (all wool guaranteed) UuderShirts Mens and Boy's Good Camel's Hair (good imitation) Shirts and Drawers - -Men's and Boy's Fine Medicated Scarlet Lamb's Wool Shirts and Drawers Men's and Boy's Finest Medicated Scarlet Lamb's Wool Shirts and Drawers -Best Quality Drill Drawers -Good Canton Flannel Drawers 35c. White Wool, Natural Wool, Fancy Merinos and Campbel's Hair Sults at lower prices and better qualities than you ever saw. Yes, more than this we

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If you will read the balance of this advertisement you will learn of a place where you can buy the best 50c. unlaundried shirt in America. A good fur cap for 75c, worth \$1 50. Seamless cotton socks, GOOD WEIGHT, for 5c, worth 10c. Beautiful line of Neckwear for 25c, worth 50c. Suspenders for 5, 10, 15 and 29 cents, worth double and tribble the money. Now where these goods came from-how they were secured at these prices-whether they were smuggled, stolen, or bought for spot cash from some poor manufacturer hanging on the ragged edge of bankruptcy-makes no difference to you. If you can buy a No. 1 ALL-WOOL SUIT FOR \$6 75, you are willing to take it and ask no questions. You are not going to puzzle your brain about it are you? Well we guess not. You may not believe the above reports, for they do sound incredible, but if you will drop into GLASS' CORNER on any fine day, and don't find the above true to the lette, we will give you a years' subscription free of charge. It's wonderful, but it's true. You will find the

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Makes MAN or BEAST well again!

That "poor back" is held responsible for more than its mankind. If your dog bites a man who kicks it, do you blame the dog? On the same principle the kidneys utter their protest against nervou-ness, impure blood, and resulting constipation. These forcethem to do extraordinary work in ridding the resulting constipation. These force them system of the poisons which are the blood. Then the sufferer says the cased, "Not yet;" but they will the blood purified, and the constipation of kidney troubles, and Paine's Celery With its tonic, purifying, and lasative effect, it also strengthens the weak kidneys, making it almost infallible in the causes of the nerves and kidneys. If your hopes of cure have not been realized, iry Paine's Celery Comneva. If your hopes of cure have not been realized, try Paine's Celery Com pound; it gives perfect health to all who complain of "their poor backs." Price \$1,00. SOLD BY DRUGGISTS. SEND FOR ILLUSTRATED PAPER.

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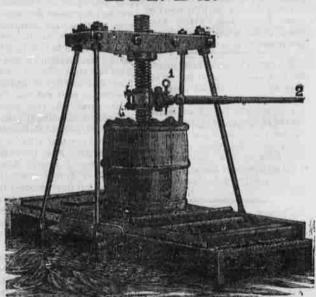
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